

6 an orifice disposed between the liquid container and the conduit, wherein at
7 least one of the liquid container, the orifice, and the conduit has a surface of a **[metal]**
8 stainless steel alloy having less than 5% nickel.

1 2. (AMENDED) The apparatus of claim 1 wherein said **[metal]** stainless
2 steel alloy **[comprises stainless steel alloy with]** has at least 15% chromium.

3 3. (AMENDED) The apparatus of claim 1 wherein said **[metal]** stainless
4 steel has alloy **[comprises a stainless steel having]** has less than 1% nickel.

5 4. (AMENDED) The apparatus of claim 1 wherein said **[metal]** stainless
6 steel alloy is selected from the group consisting of stainless steel alloy 430, stainless steel alloy
7 440, and stainless steel alloy 446.

8 8. (AMENDED) An apparatus for delivering a liquid phosphorous
9 precursor compound, comprising:

10 a container adapted to hold said liquid phosphorous precursor
11 compound;

12 a conduit configured to convey said liquid phosphorous precursor
13 compound or a gaseous product of said liquid phosphorous precursor
14 compound from the container;

15 a heating surface coupled to at least one of a portion of said container
16 and a portion of said conduit;

17 wherein at least one of said portion of said container and said portion of said
18 conduit is composed of **[an]** a stainless steel alloy having less than 5 percent nickel.

19 9. (AMENDED) The apparatus of claim 8 wherein said **[metal alloy**
20 **comprises]** stainless steel alloy **[with]** comprises at least 15% chromium.

21 10. (AMENDED) The apparatus of claim 8 wherein said **[metal]** stainless
22 steel alloy comprises **[stainless steel having]** less than 1% nickel.

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11. (AMENDED) The apparatus of claim 8 wherein said **[metal]** stainless steel alloy is selected from the group consisting of stainless steel alloy 430, stainless steel alloy 440, and stainless steel alloy 446.

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15. (AMENDED) The apparatus of claim 8 wherein said apparatus comprises an injection system for delivering gases to a chemical reaction chamber for semiconductor wafer fabrication, and wherein said injection system includes an injection valve composed of **[an]** a stainless steel alloy having less than 5 percent nickel.

16. (AMENDED) The apparatus of claim 8 wherein said portion composed of **[an]** the stainless steel alloy comprises a gasket and a seal.

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20. (AMENDED) A liquid flow injection valve for supplying TEPO, TMP or TEP to a chemical vapor deposition (CVD) chamber comprising:

an injection orifice for connecting to a source of liquid TEPO, TMP or TEP; and

a valve outlet for delivering a gaseous mixture generated from said liquid TEPO, TMP or TEP to said CVD chamber;

said injection orifice including a **[metal]** stainless steel alloy having less than 5% nickel.

21. (AMENDED) The valve of claim 20 wherein said **[metal comprises a]** stainless steel alloy **[with]** has at least 15% chromium.

22. (AMENDED) The valve of claim 20 wherein said **[metal]** stainless steel alloy is selected from the group consisting of stainless steel alloy 430, stainless steel alloy 440, and stainless steel alloy 446.

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28. (AMENDED) A method for injecting gaseous phosphorous precursor into a **[CVD]** chemical vapor deposition chamber, the method comprising **[the steps of]**:

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3 providing a liquid TEPO, TMP or TEP through an injection valve including a
4 **[metal]** stainless steel alloy having less than 10% nickel;
5 providing a carrier gas through said valve;
6 creating a pressure differential in said valve; and
7 heating said injection valve.

1 31.-45. [CANCELED]

2 ~~46. (NEW)~~ An apparatus for use with a liquid phosphorous precursor
3 compound, the apparatus comprising:

4 a container adapted to hold the liquid phosphorous precursor compound;
5 a conduit; and
6 an orifice disposed between the liquid container and the conduit, wherein at
7 least one of the liquid container, the orifice, and the conduit has a surface of a stainless steel
8 alloy having less than 10 % nickel.

REMARKS

Claims 1-4, 8-11, 15, 16, 20-22, and 28 have been amended to specifically recite a stainless steel alloy, as recommended by the Examiner in the telephone conference of November 12, 1998. In that telephone conference, the Examiner indicated that claims 31-45 would be allowed in the parent case, for which the Applicants sincerely thank the Examiner. Accordingly, claims 31-45 have been canceled. Thus, claims 1-30 and 46 are pending.

CONCLUSION

In view of the foregoing, Applicants believe all claims now pending in this Application are in condition for allowance. Examination of all claims and the issuance of a